

## CLAIMS

1. A method of manufacturing a stamper for manufacturing an information medium, comprising the steps of:

manufacturing a photoresist master by forming at least a  
5 light absorption layer and a photoresist layer, in that order,  
on top of a substrate, irradiating light onto said photoresist  
layer from an opposite surface to that which contacts said  
light absorption layer to form a latent image, and then  
developing this latent image to form an protrusion/depression  
10 pattern;

forming a thin metal film on top of said  
protrusion/depression pattern of said photoresist master;

forming a stamper by forming a metal film on top of said  
thin metal film, and separating said thin metal film and said  
15 metal film from said photoresist master; and

providing Pd on a surface of said protrusion/depression  
pattern as a preliminary treatment to the step of forming said  
thin metal film on said photoresist layer.

2. The method of manufacturing a stamper for manufacturing  
20 an information medium according to claim 1, wherein

in said step for providing Pd, a quantity Y of Pd  
provided on a mirror surface, which represents an area in  
which said protrusion/depression pattern is not formed,  
relative to a quantity X of Pd provided on a pattern surface,  
25 which represents an area in which protrusion/depressionnesses

are formed by said protrusion/depression pattern, satisfies  
 $0.9X < Y < 1.1X$ .

3. A stamper for manufacturing an information medium, in a  
surface of the stamper an protrusion/depression pattern being  
5 formed in advance, the stamper being manufactured by the steps  
of: manufacturing a photoresist master by forming at least a  
light absorption layer and a photoresist layer, in that order,  
on top of a substrate, irradiating light onto said photoresist  
layer from an opposite surface to that which contacts said  
10 light absorption layer to form a latent image, and then  
developing this latent image to form an protrusion/depression  
pattern; forming a thin metal film on top of said  
protrusion/depression pattern of said photoresist master;  
forming the stamper by forming a metal film on top of said  
15 thin metal film, and separating said thin metal film and said  
metal film from said photoresist master; and providing Pd on a  
surface of said protrusion/depression pattern as a preliminary  
treatment to the step of forming said thin metal film on said  
photoresist layer.

20 4. A photoresist master comprising a substrate, a light  
absorption layer laminated on top of said substrate, and a  
photoresist layer which is laminated on top of said light  
absorption layer and is capable of having an  
protrusion/depression pattern formed therein by forming and  
25 subsequently developing of a latent image, wherein Pd is

provided on a surface of said protrusion/depression pattern formed in said photoresist layer.

5. A stamper for manufacturing an information medium, manufactured from a photoresist master having a substrate, a light absorption layer laminated on top of said substrate, and a photoresist layer which is laminated on top of said light absorption layer and is capable of having an protrusion/depression pattern formed therein by forming and subsequently developing of a latent image, and in which Pd is provided on a surface of said protrusion/depression pattern formed in said photoresist layer, wherein a quantity Y of Pd provided on a mirror surface, which represents an area in which said protrusion/depression pattern is not formed, relative to a quantity X of Pd provided on a pattern surface, which represents an area in which protrusion/depressionnesses are formed by said protrusion/depression pattern, satisfies  $0.9X < Y < 1.1X$ .

6. An information medium, in which a final protrusion/depression pattern is formed by using, as a negative pattern, an protrusion/depression pattern of a stamper manufactured by the steps of: manufacturing a photoresist master by forming at least a light absorption layer and a photoresist layer, in that order, on top of a substrate, irradiating light onto said photoresist layer from an opposite surface to that which contacts said light

absorption layer to form a latent image, and then developing  
said latent image to form an protrusion/depression pattern;  
forming a thin metal film on top of said protrusion/depression  
pattern of said photoresist master; forming a stamper by  
5 forming a metal film on top of said thin metal film, and  
separating said thin metal film and said metal film from said  
photoresist master; and providing Pd on a surface of said  
protrusion/depression pattern as a preliminary treatment to  
the step of forming said metal thin film on said photoresist  
10 layer.

7. The information medium according to claim 6, wherein  
said final protrusion/depression pattern is formed by  
direct transfer of said protrusion/depression pattern from  
said stamper.

15 8. The information medium according to claim 6, wherein  
said final protrusion/depression pattern is formed by  
transfer of an protrusion/depression pattern from a mother  
stamper, which has been formed by transfer of said  
protrusion/depression pattern using said stamper as a master  
20 stamper.

9. The information medium according to claim 6, wherein  
said final protrusion/depression pattern is formed by  
transfer of an protrusion/depression pattern from a child  
stamper, and said protrusion/depression pattern of said child  
25 stamper is formed by transfer of an protrusion/depression

pattern from a mother stamper, which has been formed by transfer of said protrusion/depression pattern using said stamper as a master stamper.

10. An information medium, in which a final  
5 protrusion/depression pattern is formed by using, as a negative pattern, an protrusion/depression pattern of a stamper which is manufactured from a photoresist master having a substrate, a light absorption layer laminated on top of said substrate, and a photoresist layer which is laminated on top  
10 of said light absorption layer and is capable of having an protrusion/depression pattern formed therein by forming and subsequently developing of a latent image, and in which Pd is provided on a surface of said protrusion/depression pattern formed in said photoresist layer, wherein a quantity Y of Pd  
15 provided on a mirror surface, which represents an area in which said protrusion/depression pattern is not formed, relative to a quantity X of Pd provided on a pattern surface, which represents an area in which protrusion/depressionnesses are formed by said protrusion/depression pattern, satisfies  
20  $0.9X < Y < 1.1X$ .

11. The information medium according to claim 10, wherein said final protrusion/depression pattern is formed by direct transfer of said protrusion/depression pattern from said stamper.

25 12. The information medium according to claim 10, wherein

said final protrusion/depression pattern is formed by transfer of an protrusion/depression pattern from a mother stamper, which has been formed by transfer of said protrusion/depression pattern using said stamper as a master stamper.

13. The information medium according to claim 10, wherein

said final protrusion/depression pattern is formed by transfer of an protrusion/depression pattern from a child stamper, and said protrusion/depression pattern of said child stamper is formed by transfer of an protrusion/depression pattern from a mother stamper, which has been formed by transfer of said protrusion/depression pattern using said stamper as a master stamper.